

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P562894

Luminaire Tested: **SQ4-PC3-100U-050D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562894
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-100U-050D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

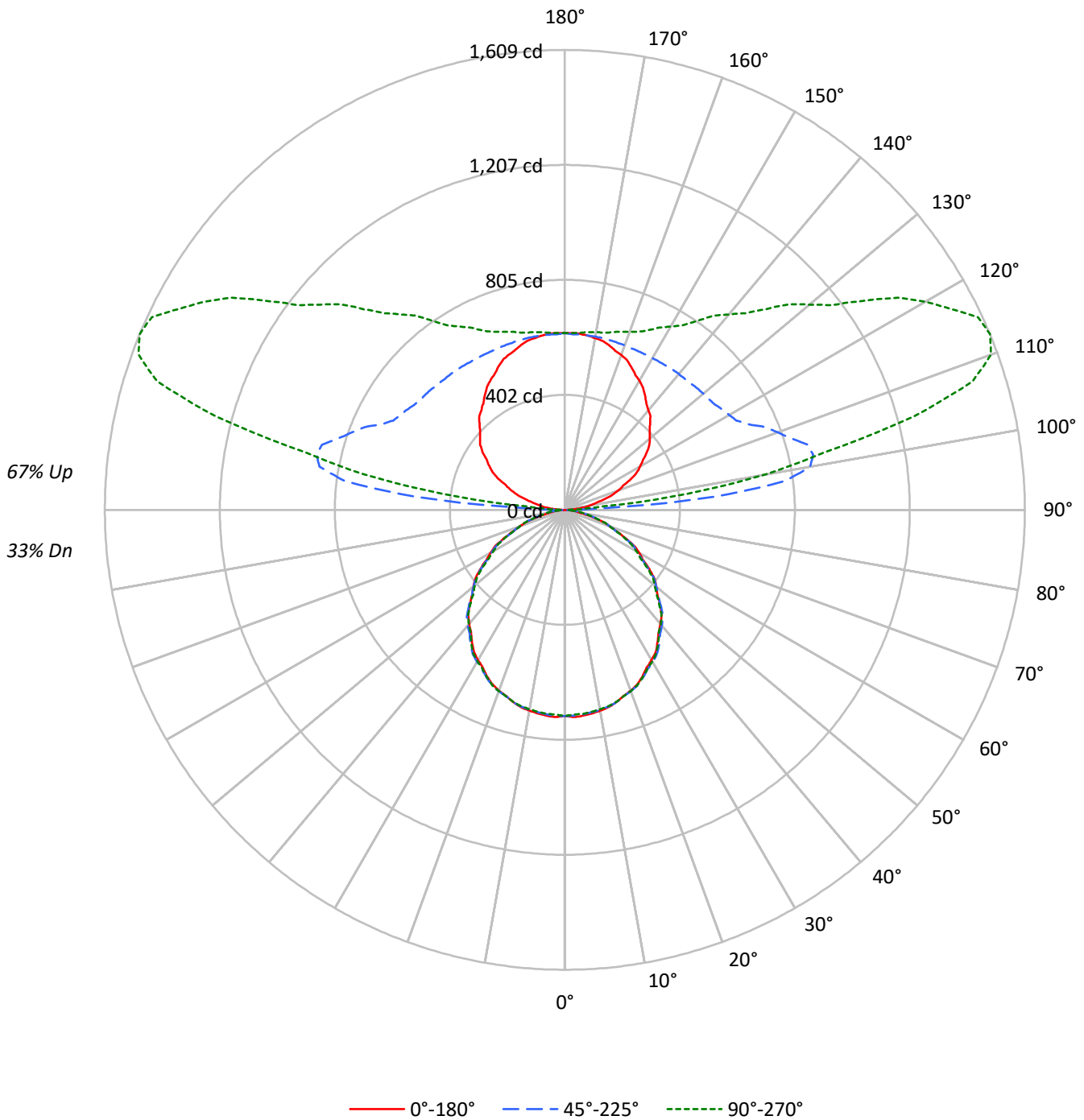
Lumens per Lamp: N/A
Luminaire Lumens: 5985.6 lumens
Efficiency: N/A
Efficacy: 144.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 41.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	78	72	67	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	38	36	33	28	26	24	20
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	34	31	31	27	24	22	20	18	15
6	60	48	40	35	54	44	37	32	35	30	27	28	24	21	20	18	16	13
7	55	43	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	16	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6653	6653	6653
5°	6703	6660	6635
10°	6686	6655	6637
15°	6652	6652	6645
20°	6608	6627	6627
25°	6546	6593	6572
30°	6466	6544	6516
35°	6369	6467	6422
40°	6264	6353	6288
45°	6151	6194	6099
50°	5990	5990	5894
55°	5799	5725	5638
60°	5519	5408	5322
65°	5102	4999	4956
70°	4467	4502	4483
75°	3593	3975	4000
80°	2556	3369	3406
85°	1556	2826	2826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	1.1
10°-20°	195.8	3.3
20°-30°	296.6	5.0
30°-40°	355.6	5.9
40°-50°	362.5	6.1
50°-60°	316.5	5.3
60°-70°	226.6	3.8
70°-80°	116.7	1.9
80°-90°	30.8	0.5
90°-100°	289.5	4.8
100°-110°	799.1	13.4
110°-120°	824.2	13.8
120°-130°	662.3	11.1
130°-140°	520.5	8.7
140°-150°	399.2	6.7
150°-160°	286.9	4.8
160°-170°	175.5	2.9
170°-180°	59.2	1.0
0°-30°	560.6	9.4
0°-40°	916.2	15.3
0°-60°	1595.2	26.7
0°-90°	1969.3	32.9
90°-120°	1912.8	32.0
90°-150°	3494.8	58.4
90°-180°	4016.0	67.1
0°-180°	5985.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	721	721	721	721	721	
5°	724	717	719	717	716	69
15°	696	690	696	696	696	196
25°	643	638	648	646	646	296
35°	566	564	574	570	570	354
45°	471	470	475	469	467	363
55°	360	356	356	350	350	321
65°	234	228	229	227	227	231
75°	101	105	112	112	112	109
85°	15	22	27	27	27	20
90°	2	4	8	9	10	4
95°	42	157	525	216	140	45
105°	142	220	879	1342	1264	152
115°	255	308	708	1402	1594	251
125°	350	398	642	1086	1275	312
135°	421	467	624	880	992	326
145°	489	522	616	749	806	306
155°	551	569	611	672	693	254
165°	596	604	614	638	643	168
175°	618	619	615	624	622	59
180°	618	618	618	618	618	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	721.1	721.1	721.1	721.1	721.1
2.5°	725.4	719.1	721.1	719.4	716.8
5°	723.7	716.6	719.1	717.1	716.4
7.5°	718.5	711.4	714.7	713.3	712.7
10°	713.7	706.6	710.4	709.0	708.4
12.5°	707.3	700.7	705.1	703.7	703.6
15°	696.4	690.5	696.4	696.4	695.7
17.5°	682.6	677.3	683.6	683.9	683.6
20°	673.0	667.1	675.0	674.4	675.0
22.5°	661.3	656.4	664.9	663.1	663.8
25°	643.0	638.4	647.6	645.6	645.6
27.5°	621.3	618.1	628.1	626.0	626.0
30°	606.9	603.6	614.3	611.6	611.6
32.5°	590.9	588.7	598.8	595.6	595.6
35°	565.5	564.2	574.2	570.2	570.2
37.5°	539.3	538.2	547.2	542.4	540.8
40°	520.1	519.5	527.5	522.1	522.1
42.5°	500.9	500.2	507.2	500.7	500.7
45°	471.4	470.1	474.7	468.7	467.4
47.5°	439.2	437.9	440.8	434.2	433.6
50°	417.3	416.0	417.3	411.3	410.6
52.5°	394.9	392.5	392.7	386.7	386.6
55°	360.5	356.0	355.9	350.5	350.5
57.5°	324.2	318.2	318.7	314.2	313.5
60°	299.1	292.6	293.1	289.1	288.4
62.5°	274.5	267.0	268.5	264.0	263.9
65°	233.7	228.5	229.0	227.0	227.0
67.5°	194.4	189.6	193.1	191.5	191.4
70°	165.6	162.3	166.9	166.9	166.2
72.5°	138.9	138.7	144.5	144.5	144.9
75°	100.8	105.4	111.5	112.2	112.2
77.5°	67.3	75.4	82.1	82.4	82.3
80°	48.1	57.2	63.4	64.7	64.1
82.5°	32.6	42.2	47.4	48.7	48.1
85°	14.7	22.5	26.7	27.4	26.7
87.5°	4.7	9.8	12.3	12.4	11.6
90°	2.0	3.9	7.9	8.9	9.9
92.5°	17.8	73.9	132.1	48.2	37.6
95°	42.5	156.6	525.2	215.9	140.4
97.5°	70.4	175.4	778.0	599.0	433.8
100°	91.0	186.7	871.3	877.5	713.1
102.5°	110.8	199.5	889.5	1084.2	928.3
105°	142.4	219.8	879.2	1342.3	1264.0
107.5°	176.0	244.9	830.2	1466.8	1495.4
110°	199.8	261.7	792.2	1493.5	1586.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221.1	280.7	756.6	1472.4	1609.3
115°	255.2	308.4	708.1	1401.9	1594.3
117.5°	284.8	337.8	676.3	1302.6	1521.5
120°	304.6	356.8	663.6	1235.3	1455.8
122.5°	323.6	373.5	653.3	1172.6	1381.5
125°	350.1	398.5	641.9	1086.3	1274.8
127.5°	372.7	421.0	635.1	1013.3	1175.9
130°	387.7	436.0	632.0	968.6	1116.6
132.5°	401.9	448.0	628.8	931.1	1065.2
135°	421.3	466.8	624.1	879.8	992.0
137.5°	443.1	484.5	621.7	836.7	932.4
140°	454.9	495.6	620.1	808.0	892.1
142.5°	468.4	505.9	618.5	782.4	856.5
145°	488.6	522.4	616.2	749.0	806.0
147.5°	508.0	537.5	614.0	720.8	765.1
150°	522.2	546.4	613.2	704.0	739.8
152.5°	533.3	555.9	612.4	689.6	719.2
155°	550.9	569.3	611.2	672.0	693.3
157.5°	567.1	581.2	611.4	659.2	673.7
160°	576.6	589.2	612.2	652.0	662.6
162.5°	584.5	595.5	613.0	645.6	653.9
165°	596.4	604.1	614.2	638.0	642.9
167.5°	605.5	610.1	615.2	633.4	634.9
170°	610.2	614.1	615.2	631.0	631.0
172.5°	614.2	616.5	615.2	627.8	627.0
175°	618.1	619.1	615.2	624.0	622.1
177.5°	619.7	618.9	615.0	620.5	618.9
180°	618.1	618.1	618.1	618.1	618.1

(END OF REPORT)